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SEQUENCE LISTING

<110> The Hospital for Sick Children

Scherer, Stephen W.

Minassian, Berge A.

<120> Novel Lafora's Disease Gene

<130> 9962-58

<150> US 60/491,968

<151> 2003-08-04

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<170> PatentIn version 3.1

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Val Val Cys Leu Ala Cys Val Ala Ala Leu Ala His Pro Arg Thr Leu
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Ala Leu Glu Cys Pro Phe Cys Arg Arg Ala Cys Arg Gly Cys Asp Thr
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Leu Arg Gln Ser Pro Ala Ala His Arg Ala Ala Pro Ser Ala Pro Gly
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Ala Leu Thr Cys His His Thr Phe Gly Gly Trp Gly Thr Leu Val Asn
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His Asp Gly Arg Arg Arg Val Lys Ile Phe Asp Ser Gly Gly Gly Cys
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Ala His Gln Phe Gly Glu Lys Gly Asp Ala Ala Gln Asp Ile Arg Tyr
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Pro Val Asp Val Thr Ile Thr Asn Asp Cys His Val Val Val Thr Asp
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Pro Gln Asn Gly Ile Val Val Thr Asp Ala Glu Ala Gly Ser Leu His
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Leu Gln Ala His Leu Cys Asn Pro Arg Gly Val Ala Val Ser Trp Leu
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Gly Gln Val Asp Thr Phe Gly Leu Ser Leu Tyr Phe Pro Ser Lys Ile
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| caccagcac caagccccg cccccgccc caagcaccca gccccagcac ccagccccg | 180 |
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| ccgccccagc cccagcccc gtccccccc ccagcaccca gccccagccc cagcagcagc | 300 |
| accagcagg ggactgcaaa gcgtaggcta cccaggtgg aacaccgtgt tctagttttg | 360 |
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| aaagcgggagc cgccccgccc cgccccccgc ctgcctgaag gtcacggggc tgggcctgcg | 480 |
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| Gly Ser Gly Arg Ala Leu Arg Glu Leu Val Arg Glu Ala Glu Val Ser | |
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| Leu Leu Glu Cys Lys Val Cys Phe Glu Arg Phe Gly His Arg Gln Gln | |
| 25 30 35 | |
| cgg cgc ccg cgc aac ctg ccc tgc ggc cac gtg gtg tgc ctg gcc tgc | 859 |
| Arg Arg Pro Arg Asn Leu Pro Cys Gly His Val Val Cys Leu Ala Cys | |
| 40 45 50 | |
| gtg gcg gcc ctg gcg cac ccg cgg acg ctg gcc ctg gag tgc ccc ttc | 907 |
| Val Ala Ala Leu Ala His Pro Arg Thr Leu Ala Leu Glu Cys Pro Phe | |
| 55 60 65 70 | |
| tgc cgc cgg gcc tgc cgc ggc tgc gac acc agc gac tgc ctg ccg gtg | 955 |
| Cys Arg Arg Ala Cys Arg Gly Cys Asp Thr Ser Asp Cys Leu Pro Val | |
| 75 80 85 | |
| ctt cac ctc ctg gag ctc ctg ggc tgc gcg ctg cgc cca gcc ccc gcc | 1003 |
| Leu His Leu Leu Glu Leu Leu Gly Ser Ala Leu Arg Pro Ala Pro Ala | |
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| gcc ccc cgc gcc gcc ccc cgc gcc gcc ccc tgc gcc ccg ggc gcc ctc | 1051 |
| Ala Pro Arg Ala Ala Pro Arg Ala Ala Pro Cys Ala Pro Gly Ala Leu | |
| 105 110 115 | |
| gcc tgc cat cac gcg ttc gga ggc tgg ggg acc ctg gtc aac ccc acg | 1099 |
| Ala Cys His His Ala Phe Gly Gly Trp Gly Thr Leu Val Asn Pro Thr | |
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| cag ttt gga gag aag ggg gag gct gcc cag gac att agg tac ccc ctg | 1243 |
| Gln Phe Gly Glu Lys Gly Glu Ala Ala Gln Asp Ile Arg Tyr Pro Leu | |
| 170 175 180 | |
| gac gtc gcc gtc acc aac gac tgc cac gtg gtt gtc acc gac gcc ggc | 1291 |
| Asp Val Ala Val Thr Asn Asp Cys His Val Val Val Thr Asp Ala Gly | |
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| Asp Arg Ser Ile Lys Val Phe Asp Phe Phe Gly Gln Ile Lys Leu Val | |
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| att gga gac cag ttt tcc tta cct tgg ggc gtg gag acc acc cct cag | 1387 |
| Ile Gly Asp Gln Phe Ser Leu Pro Trp Gly Val Glu Thr Thr Pro Gln | |
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| aat ggg gtc gtg gta act gac gcc gag gca ggg tcg ctg cac ctg ctg | 1435 |
| Asn Gly Val Val Val Thr Asp Ala Glu Ala Gly Ser Leu His Leu Leu | |
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| Glu Val Asp Phe Ala Glu Gly Ala Leu Gln Arg Thr Glu Lys Leu Gln | |
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| Gly His Leu Cys Asn Pro Arg Gly Val Ala Val Ser Trp Leu Thr Gly | |
| 265 270 275 | |
| gcc att gcg gtc ctg gag cac cct ccg ggg ctg ggg gct ggg gcg ggc | 1579 |
| Ala Ile Ala Val Leu Glu His Pro Pro Gly Leu Gly Ala Gly Ala Gly | |
| 280 285 290 | |
| agc acc gcc gtg aag gtg ttc agc cca act atg cag ctg atc ggc cag | 1627 |
| Ser Thr Ala Val Lys Val Phe Ser Pro Thr Met Gln Leu Ile Gly Gln | |
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| gtg gat acc ttt ggg ctc agc ctc ttt ttc ccc tct aga ata acc gcc | 1675 |
| Val Asp Thr Phe Gly Leu Ser Leu Phe Phe Pro Ser Arg Ile Thr Ala | |
| 315 320 325 | |
| tcc gcc gtg acc ttt gat cac cag ggg aat gtg att gtt gca gat act | 1723 |
| Ser Ala Val Thr Phe Asp His Gln Gly Asn Val Ile Val Ala Asp Thr | |
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| 360 365 370 | |
| ttc acc aag gag aat tct ctt ctt gtg ctg gac agt gca gcc cat tcc | 1867 |
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Val Val Cys Leu Ala Cys Val Ala Ala Leu Ala His Pro Arg Thr Leu
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Ala Leu Glu Cys Pro Phe Cys Arg Arg Ala Cys Arg Gly Cys Asp Thr
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Ser Asp Cys Leu Pro Val Leu His Leu Leu Glu Leu Leu Gly Ser Ala
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Leu Arg Pro Ala Pro Ala Ala Pro Arg Ala Ala Pro Arg Ala Ala Pro
 100 105 110

Cys Ala Pro Gly Ala Leu Ala Cys His His Ala Phe Gly Gly Trp Gly
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Thr Leu Val Asn Pro Thr Gly Leu Ala Leu Cys Pro Lys Thr Gly Arg
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Gly Gly Gly Cys Ala His Gln Phe Gly Glu Lys Gly Glu Ala Ala Gln

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165

170

175

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Gly Ser Leu His Leu Leu Glu Val Asp Phe Ala Glu Gly Ala Leu Gln
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Arg Thr Glu Lys Leu Gln Gly His Leu Cys Asn Pro Arg Gly Val Ala
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Val Ser Trp Leu Thr Gly Ala Ile Ala Val Leu Glu His Pro Pro Gly
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